Paper Dated: July 6, 2005

In Reply to USPTO Correspondence of April 7, 2005

Attorney Docket No. 4005-031405

REMARKS

The Office Action of April 7, 2005 has been reviewed and the Examiner's

comments carefully considered. The present Amendment amends claims 1 and 18 in

accordance with the originally-filed specification. Support for these amendments can be

found, for example, in paragraphs [0004], [0005], [0006] and [0030] of the originally-filed

specification. Claims 1-28 remain in this application, and claims 1 and 18 are in independent

form.

Initially, the Examiner indicates that the title of the invention is not

descriptive. In particular, the Examiner requires a new title that is clearly indicative of the

invention to which the claims are directed. In response to this objection, and through the

foregoing amendment, Applicants have modified the title of the invention and fully

incorporated the Examiner's suggested modifications. Specifically, the title of the invention

(and application) is now "Identification Apparatus With Automated Signal Receiving

Means".

With respect to the claim rejections, claims 1-3, 5 and 10-13 stand rejected

under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent No. 6,424,262 to Garber et al.

(hereinafter "the Garber patent"). In addition, claims 1-10, 12 and 14-28 stand rejected under

35 U.S.C. § 103(a) as being obvious over the Garber patent in view of U.S. Patent No.

3,958,102 to Burt. In view of the following remarks and the foregoing amendments,

Applicants respectfully request reconsideration of these rejections.

Independent claim 1 of the present application, as amended, is directed to an

identification apparatus for use in connection with a plurality of discrete identity source

elements positioned in an identification apparatus signal identification area. In particular, the

Page 10 of 16

Paper Dated: July 6, 2005

In Reply to USPTO Correspondence of April 7, 2005

Attorney Docket No. 4005-031405

identification apparatus includes at least one signal receiving mechanism for receiving a

signal emitted from one or more of the plurality of identity source elements, and the signal

receiving mechanism includes a field of detection that comprises at least a portion of the

identification apparatus signal identification area. Further, the signal receiving mechanism

automatically moves along at least one axis of movement. The apparatus also includes a

control mechanism in communication with the signal receiving mechanism to control the

movement of the signal receiving mechanism along the axis of movement and/or receive,

process and transmit the signal received by the signal receiving mechanism. Still further, the

signal receiving mechanism identifies the identity source elements regardless of the

orientation or position of the identity source element with respect to the signal receiving

mechanism.

Independent claim 18 of the present application, as amended, is directed to a

method of receiving a signal from at least one of multiple identity source elements positioned

in a signal identification area. The method includes the steps of: (a) automatically moving a

signal receiving mechanism along at least one axis of movement; (b) receiving a signal

emitted by at least one of the plurality of identity source elements by the signal receiving

mechanism regardless of the identity source element orientation or position with respect to

the signal receiving mechanism; and (c) controlling the movement of the signal receiving

mechanism by a control mechanism.

The Garber patent is directed to applications for radio frequency identification

systems. With specific reference to the Examiner's rejection on page 3 of the Office Action,

it appears that the Examiner believes that the signal receiving mechanism is configured to

move along at least one axis of movement, and the Examiner specifically refers to column 14,

Page 11 of 16

Paper Dated: July 6, 2005

In Reply to USPTO Correspondence of April 7, 2005

Attorney Docket No. 4005-031405

lines 45-64 of the Garber patent. This portion of the specification of the Garber patent, which

is labeled "Portable RFID Devices", discusses a handheld RFID device for searching along

shelves, bins, piles and library cards. Therefore, and obviously, such a handheld device is

movable. The handheld RFID device can search wherever it can be positioned close enough

to the items, and can identify multiple items that are within the range of the device, which

makes this portable device a valuable library tool. An illustration of this portable and

handheld device in operation is found in Fig. 13 of the Garber patent.

The Burt patent is directed to an inventory taking system for an automatic

warehouse. A laser beam scanner 66 is mounted on a rotatable platform 72 attached by a

vertical shaft 74 to a carriage base 76. A rotating motor is mounted to the carriage base 76

and rotates a worm screw 78, which meshes with a gear 80 to rotate the laser beam scanner.

In this manner, a thin vertical scanning curtain 70 is rapidly reciprocated in a vertical

direction. Upon striking the reflective portions of the code 32, the light beam is reflected

back to the lens assembly and directed to a decoder to determine the presence of the bars. It

appears that the Examiner believes that such a laser scanner, as disclosed in the Burt patent,

functions as a signal receiving means that moves along an axis of movement.

First, with respect to the Examiner's Section 102 rejection of independent

claim 1 in view of the Garber patent, Applicants respectfully submit that the Examiner indeed

understands the "automated" nature of the present invention. Specifically, the Examiner has

required a new title of invention that specifically references the "automated signal receiving

means", which moves along an axis of movement and is controlled by a control mechanism

that is in communication therewith. As discussed above, the Garber patent discloses, in one

embodiment, a portable and handheld RFID device that a person must manually move around

Page 12 of 16

Paper Dated: July 6, 2005

In Reply to USPTO Correspondence of April 7, 2005

Attorney Docket No. 4005-031405

in order to read the tags. As seen in Fig. 13 of the Garber patent, a person is holding this

handheld device and moving it back and forth across library books in order to identify the

location or presence of these tagged books.

Independent claims 1 and 18 have been modified to better clarify the

"automated" function and structure of the identification apparatus of the present invention. In

particular, these claims now specifically recite that the signal receiving mechanism is

configured to automatically move along at least one axis of movement. Such automated

movement is clearly not a feature of the systems and devices of the Garber patent.

Another drawback of the Garber patent that is overcome by the present

invention is the necessary alignment of the tags with respect to the signal receiving

mechanism. For example, as seen in the portable, handheld RFID device embodiment of the

Garber patent, and as illustrated in Fig. 13, the tags and the books must be specifically

aligned in order to be read by the signal receiving device. Such handheld systems are well

known in the art and employed in many applications, such as in law firms and the like, where

files are tagged and scanned in order to identify their location. It should be noted that these

files, much like the books in the Garber patent, must be specifically aligned in order for this

handheld device to effectively identify them.

Independent claims 1 and 18 have been further modified to specifically recite

that the signal receiving mechanism is configured to identify the identity source elements

regardless of the orientation or position of the identity source element with respect to the

signal receiving mechanism. In fact, it is just this drawback that the present invention

overcomes, by moving the signal receiving mechanism or antenna in various directions in

order to properly identify all tags regardless of orientation or position. In particular, the

Page 13 of 16

Paper Dated: July 6, 2005

In Reply to USPTO Correspondence of April 7, 2005

Attorney Docket No. 4005-031405

identification apparatus of the present invention is an automated antenna that moves below an

inventory, such that its recognition field moves and recognizes all manner and orientation of

the associated tags. The Garber patent requires alignment in order to identify various items,

tags and/or identity source elements.

For the foregoing reasons, it is respectfully submitted that the Garber patent

does not teach or suggest an identification apparatus including a signal receiving mechanism

that automatically moves along at least one axis of movement, where the signal receiving

mechanism identifies the identity source elements regardless of the orientation or position of

the identity source element with respect to the signal receiving mechanism, as specifically set

forth in independent claims 1 and 18 of the present application.

Next, with respect to the Examiner's Section 103 rejection of the claims in

view of the Garber patent and Burt patent, Applicants respectfully submit the following. The

Burt patent is a line-of-sight signal processing operation for taking inventory in an automated

warehouse setting. As discussed above, the laser beam scanner 66 rotates and projects a thin

vertical scanning curtain 70 in a vertical direction. This scanning curtain 70 must strike the

reflective portions of the code 32 in order to bounce back and be read and decoded by the

assembly. Therefore, if the tags with the barcodes are not directly facing or in the line-of-sight

of the laser beam scanner 66 (or vertical scanning curtain 70), the tags will not be read and

the item will not be inventoried. Therefore, unlike the present invention, the system of the

Burt patent does not include a signal receiving mechanism that identifies the identity source

elements (or tags) regardless of the orientation or position of the identity source elements (or

tags) with respect to the signal receiving mechanism.

Page 14 of 16

Paper Dated: July 6, 2005

In Reply to USPTO Correspondence of April 7, 2005

Attorney Docket No. 4005-031405

As discussed above, such a limitation has been placed in both independent

claims 1 and 18 of the present application. Accordingly, neither the Garber patent nor the

Burt patent whether used alone or in combination, teaches or suggests an identification

apparatus that includes a signal receiving mechanism for identifying the identity source

elements regardless of the orientation or position of the identity source elements with respect

to the signal receiving mechanism, as specifically set forth in independent claims 1 and 18 of

the present application.

For all the foregoing reasons, independent claims 1 and 18 are not anticipated

by or rendered obvious over the Garber patent, the Burt patent, or any of the remaining prior

art of record, whether used alone or in combination. There is no hint or suggestion in any of

the references cited by the Examiner to combine these references in a manner which would

render the invention, as claimed, obvious. On this basis, reconsideration of the rejection of

independent claims 1 and 18 is respectfully requested.

Claims 2-17 depend either directly or indirectly from and add further

limitations to independent claim 1 and are believed to be allowable for the reasons discussed

hereinabove in connection with independent claim 1. Further, claims 19-28 depend either

directly or indirectly from and add further limitations to independent claim 18 and are

believed to be allowable for the reasons discussed hereinabove in connection with

independent claim 18. In addition, many of the dependent claims include further novel and

non-obvious features that provide additional function and beneficial structural limitations to

the independent claims. Therefore, for all the above reasons, reconsideration of the rejections

of claims 2-17 and 19-28 is respectfully requested.

Page 15 of 16

Application No. 10/691,082 Paper Dated: July 6, 2005

In Reply to USPTO Correspondence of April 7, 2005

Attorney Docket No. 4005-031405

For all the foregoing reasons, Applicants believe that claims 1-28, as amended, are patentable over the cited prior art and in condition for allowance. Reconsideration of the rejections and allowance of all pending claims 1-28 are respectfully requested.

Respectfully submitted,

THE WEBB LAW FIRM

By\_

Nathan J. Prepelka Registration No. 43,016 Attorney for Applicants 700 Koppers Building 436 Seventh Avenue

Pittsburgh, PA 15219-1818 Telephone: (412) 471-3017 Facsimile: (412) 471-4094